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RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/327,522*

DATE: 03/17/95
TIME: 13:02:48

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> **This Raw Listing contains the General
> Information Section and up to the first 5 pages.**

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 1                              SEQUENCE LISTING
 2
 3   (1)    General Information:                  ENTERED
 4
 5        (i) APPLICANT: LOCKHART, David J.
 6                      CHEE, Mark S.
 7
 8       (ii) TITLE OF INVENTION: SEQUENCING BY HYBRIDIZATION ON HIGH
 9                DENSITY PROBE ARRAYS: ENZYMATIC DISCRIMINATION ENHANCEMENT
10
11      (iii) NUMBER OF SEQUENCES: 13
12
13       (iv) CORRESPONDENCE ADDRESS:
14            (A) ADDRESSEE: Townsend and Townsend Khourie and Crew
15            (B) STREET: Steuart Street Tower, One Market Plaza
16            (C) CITY: San Francisco
17            (D) STATE: California
18            (E) COUNTRY: US
19            (F) ZIP: 94105-1493
20
21        (v) COMPUTER READABLE FORM:
22            (A) MEDIUM TYPE: Floppy disk
23            (B) COMPUTER: IBM PC compatible
24            (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25            (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
26
27       (vi) CURRENT APPLICATION DATA:
28            (A) APPLICATION NUMBER: US 08/327,522
29            (B) FILING DATE: 21-OCT-1994
30            (C) CLASSIFICATION:
31
32     (viii) ATTORNEY/AGENT INFORMATION:
33            (A) NAME: Garrett-Wackowski, Eugenia
34            (B) REGISTRATION NUMBER: 37,330
35            (C) REFERENCE/DOCKET NUMBER: 16528X-008600
36
37       (ix) TELECOMMUNICATION INFORMATION:
38            (A) TELEPHONE: (415) 543-9600
39            (B) TELEFAX: (415) 543-5043
40
41
42   (2) INFORMATION FOR SEQ ID NO:1:
43
44        (i) SEQUENCE CHARACTERISTICS:
45            (A) LENGTH: 12 base pairs
46            (B) TYPE: nucleic acid
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RAW SEQUENCE LISTING
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47              (C) STRANDEDNESS: single
48              (D) TOPOLOGY: linear
49
50      (ii) MOLECULE TYPE: DNA
51
52     (iii) HYPOTHETICAL: NO
53
54
55
56      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
57
58  TCGGATCGAC TT                                            12
59
60  (2) INFORMATION FOR SEQ ID NO:2:
61
62       (i) SEQUENCE CHARACTERISTICS:
63              (A) LENGTH: 12 base pairs
64              (B) TYPE: nucleic acid
65              (C) STRANDEDNESS: single
66              (D) TOPOLOGY: linear
67
68      (ii) MOLECULE TYPE: DNA
69
70     (iii) HYPOTHETICAL: NO
71
72
73      (ix) FEATURE:
74              (A) NAME/KEY: misc_feature
75              (B) LOCATION: 1
76              (D) OTHER INFORMATION: /note= "Base is linked to a
77                      polyethyleneglycol (PEG) spacer."
78
79
80      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
81
82  AACGCGCCGC NC                                            12
83
84  (2) INFORMATION FOR SEQ ID NO:3:
85
86       (i) SEQUENCE CHARACTERISTICS:
87              (A) LENGTH: 20 base pairs
88              (B) TYPE: nucleic acid
89              (C) STRANDEDNESS: single
90              (D) TOPOLOGY: linear
91
92      (ii) MOLECULE TYPE: DNA
93
94     (iii) HYPOTHETICAL: NO
95
96
97      (ix) FEATURE:
98              (A) NAME/KEY: misc_feature
99              (B) LOCATION: 20
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100          (D) OTHER INFORMATION: /note= "Base is covalently attached
101                   at the 5' end to a fluorescein molecule."
102
103
104      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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106  CGCAACGCAA GCGCGGCGCG                                              20
107
108  (2) INFORMATION FOR SEQ ID NO:4:
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110      (i) SEQUENCE CHARACTERISTICS:
111          (A) LENGTH: 12 base pairs
112          (B) TYPE: nucleic acid
113          (C) STRANDEDNESS: single
114          (D) TOPOLOGY: linear
115
116     (ii) MOLECULE TYPE: DNA
117
118    (iii) HYPOTHETICAL: NO
119
120
121     (ix) FEATURE:
122          (A) NAME/KEY: misc_feature
123          (B) LOCATION: 1
124          (D) OTHER INFORMATION: /note= "Base in linked to
125               polyethyleneglycol (PEG) spacer."
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127     (ix) FEATURE:
128          (A) NAME/KEY: misc_feature
129          (B) LOCATION: 1..12
130          (D) OTHER INFORMATION: /standard_name= "Denoted CG"
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132
133     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
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135  AACGCGCATT CN                                                      12
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137  (2) INFORMATION FOR SEQ ID NO:5:
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139      (i) SEQUENCE CHARACTERISTICS:
140          (A) LENGTH: 12 base pairs
141          (B) TYPE: nucleic acid
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144
145     (ii) MOLECULE TYPE: DNA
146
147    (iii) HYPOTHETICAL: NO
148
149
150     (ix) FEATURE:
151          (A) NAME/KEY: misc_feature
152          (B) LOCATION: 1
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RAW SEQUENCE LISTING
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153              (D) OTHER INFORMATION: /note= "Base is linked to
154                  polyethyleneglycol spacer."
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158              (B) LOCATION: 1..12
159              (D) OTHER INFORMATION: /standard_name= "Denoted AT"
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162         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
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164   AAATATAATT CN                                                      12
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168          (i) SEQUENCE CHARACTERISTICS:
169              (A) LENGTH: 22 base pairs
170              (B) TYPE: nucleic acid
171              (C) STRANDEDNESS: single
172              (D) TOPOLOGY: linear
173
174         (ii) MOLECULE TYPE: DNA
175
176        (iii) HYPOTHETICAL: NO
177
178
179         (ix) FEATURE:
180              (A) NAME/KEY: misc_feature
181              (B) LOCATION: 22
182              (D) OTHER INFORMATION: /note= "Base is covalently linked
183                  to fluorescein molecule."
184
185         (ix) FEATURE:
186              (A) NAME/KEY: misc_feature
187              (B) LOCATION: 1..22
188              (D) OTHER INFORMATION: /standard_name= "Denoted OH1"
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191         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
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193   GATGCAGCTT CCGGAATGCG CG                                            22
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195   (2) INFORMATION FOR SEQ ID NO:7:
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197          (i) SEQUENCE CHARACTERISTICS:
198              (A) LENGTH: 22 base pairs
199              (B) TYPE: nucleic acid
200              (C) STRANDEDNESS: single
201              (D) TOPOLOGY: linear
202
203         (ii) MOLECULE TYPE: DNA
204
205        (iii) HYPOTHETICAL: NO
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207
208      (ix) FEATURE:
209            (A) NAME/KEY: misc_feature    ·
210            (B) LOCATION: 22
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214      (ix) FEATURE:
215            (A) NAME/KEY: misc_feature
216            (B) LOCATION: 1..22
217            (D) OTHER INFORMATION: /standard_name= "Denoted OH2"
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219
220      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
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222  GATGCAGCTT CCGGAATTAT AT                                          22
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224  (2) INFORMATION FOR SEQ ID NO:8:
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226       (i) SEQUENCE CHARACTERISTICS:
227            (A) LENGTH: 10 base pairs
228            (B) TYPE: nucleic acid
229            (C) STRANDEDNESS: single
230            (D) TOPOLOGY: linear
231
232      (ii) MOLECULE TYPE: DNA
233
234     (iii) HYPOTHETICAL: NO
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236
237      (ix) FEATURE:
238            (A) NAME/KEY: misc_feature
239            (B) LOCATION: 1
240            (D) OTHER INFORMATION: /note= "Base is linked to
241                  polyethyleneglycol spacer."
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243
244      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
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246  CGCGNNNNNN                                                        10
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248  (2) INFORMATION FOR SEQ ID NO:9:
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250       (i) SEQUENCE CHARACTERISTICS:
251            (A) LENGTH: 10 base pairs
252            (B) TYPE: nucleic acid
253            (C) STRANDEDNESS: single
254            (D) TOPOLOGY: linear
255
256      (ii) MOLECULE TYPE: DNA
257
258     (iii) HYPOTHETICAL: NO
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